Atty. Docket No. MP0314
PATENT APPLICATION

Application No. 10/682,138
Response to Election of Species Requirement dated June 24, 2005
In reply to Office Action dated June 14, 2005

AMENDMENTS TO THE SPECIFICATION

Please make the corrections to paragraph [0035] as follows:

[0035] The above description describes individual circuitry to implement an apparatus to provide a signal for controlling the position of a transducing head across a rotating disk, the apparatus may be implemented for execution on a computational processor using the method described in Fig. 12 ~~[[15]]~~. The apparatus reads the position error field previously recorded on a HDD 1201 ~~1501~~ and provides the PES to the processor. The processor filters the PES to remove low frequencies and to attenuate the high frequencies 1202 ~~1502~~. The processor then samples the PES at twice the baud rate 1203 ~~1503~~ and removes any higher order harmonic frequencies 1204 ~~1504~~. The sampled PES is then down converted to the baud rate. A discrete Fourier transform then provides a PES amplitude signal 1206 ~~1506~~ for controlling a position servo. The PES amplitude signal determines the direction and magnitude of any correctional movements needed to position the transducing head over the centerline of a data track.

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